

Expendable UAV ACTD



Objectives

- Expendable surveillance for Special Operations and Personnel Recovery, Surveillance, BDA
- Low cost (<\$10k per air vehicle)
- Recoverable for Training/Expendable for OPS
- Autonomous/Semi-Autonomous GPS Waypoint Navigation
- 2hr Endurance, 20 nmi Range, Alt: 200-3000ft, Video Data Link, remote command guidance
- Evaluate Air, Land, Ship, deployment

Technology

- Low Cost composite Airframe
- Autonomous GPS autopilot
- SENSORS
 - E/O, IR, Chemical, WMD
- High End Commercial RC Components
- Maximize COTS technology
- Existing orthorectification imagery and map registration S/W

Residuals: 4 UAV aircraft / leave behind with 2 ground stations and S/W

Participants

- SOCCOM/JSOC, SOUTHCOM, OSD SOLIC, Office of Naval Research, Navy Force Protection, Army Battle Lab, Navy SPECWAR, USCG

- **Technical Lead** - Chyau N. Shen
NAVAIR Special Projects
shencn@navair.navy.mil
(301) 342-0093

- FY-02:** System Design
Integration / Test
Flight Testing Prototype Unit
- FY-03:** UAV Fabrication / OP Eval
Utility Assessment SOCOM
- FY-04/05:** Residual

